



PCT10

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/031,014

DATE: 02/07/2002  
TIME: 16:15:28

Input Set : A:\20493p.txt  
Output Set: N:\CRF3\02072002\J031014.raw

**ENTERED**

4 <110> APPLICANT: Howard, Andrew D.  
6 <120> TITLE OF INVENTION: Melanin-Concentrating Hormone Receptor  
9 <130> FILE REFERENCE: 20493P  
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/031,014  
C--> 11 <141> CURRENT FILING DATE: 2002-01-10  
11 <150> PRIOR APPLICATION NUMBER: PCT/US00/18733  
12 <151> PRIOR FILING DATE: 2000-07-10  
14 <150> PRIOR APPLICATION NUMBER: US 60/143,706  
15 <151> PRIOR FILING DATE: 1999-07-14  
17 <160> NUMBER OF SEQ ID NOS: 10  
19 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
21 <210> SEQ ID NO: 1  
22 <211> LENGTH: 1062  
23 <212> TYPE: DNA  
24 <213> ORGANISM: Human  
26 <400> SEQUENCE: 1  
27 atggacctgg aagcctcgct gctgccact ggtcccaacg ccagcaacac ctctgatggc 60  
28 cccgataacc tcacttcggc aggatcacct cctcgacgg ggagcatctc ctacatcaac 120  
29 atcatcatgc cttcggtgtt cggcaccatc tgcctctgg gcatcatcg gaaactccacg 180  
30 gtcatcttcg cggtcgtaa gaagtccaaag ctgcactggt gcaacaacgt ccccgacatc 240  
31 ttcatcatca acctctcggt agtagatctc ctcttctcc tgggcatgcc cttcatgatc 300  
32 caccagctca tgggcaatgg ggtgtggcac tttggggaga ccatgtgcac cctcatcag 360  
33 gccatggatg ccaatagtca gttcaccagc acctacatcc tgaccgccat ggccattgac 420  
34 cgctacctgg ccactgtcca ccccatctc tccacgaagt tccggaagcc ctctgtggcc 480  
35 accctggta tctgcctcct gtgggcccctc tccttcatca gcatcacccc tttgtggctg 540  
36 tatgccagac tcatccctt cccaggaggt gcagtggtt gggcatacg cctgcccac 600  
37 ccagacactg acctctactg gttcaccctg taccagttt tcctggcctt tgccctgcct 660  
38 tttgtggta tcacagccgc atacgtgagg atcctgcagc gcatgacgac ctcagtggcc 720  
39 cccgcctccc agcgcagcat cccgctgcgg acaaagaggg tgaccgcac agccatgcc 780  
40 atctgtctgg tcttctttgt gtgctggca ccctactatg tgctacagct gaccgagtt 840  
41 tccatcagcc gcccgaccct caccttgc tacttataca atgcggccat cagcttggcc 900  
42 tatgccaaca gctgcctcaa ccccttgc tacatcgtgc tctgtgagac gttccgcaaa 960  
43 cgcttggtaa tgctcgtaa gcctgcagcc cagggcagc ttgcgtgtt cagcaacgct 1020  
44 cagacggctg acgaggagag gacagaaagc aaaggcacct ga 1062  
46 <210> SEQ ID NO: 2  
47 <211> LENGTH: 353  
48 <212> TYPE: PRT  
49 <213> ORGANISM: Human  
51 <400> SEQUENCE: 2  
52 Met Asp Leu Glu Ala Ser Leu Leu Pro Thr Gly Pro Asn Ala Ser Asn  
53 1 5 10 15  
54 Thr Ser Asp Gly Pro Asp Asn Leu Thr Ser Ala Gly Ser Pro Pro Arg  
55 20 25 30

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/031,014

DATE: 02/07/2002  
TIME: 16:15:28

Input Set : A:\20493p.txt  
Output Set: N:\CRF3\02072002\J031014.raw

56 Thr Gly Ser Ile Ser Tyr Ile Asn Ile Ile Met Pro Ser Val Phe Gly  
57 35 40 45  
58 Thr Ile Cys Leu Leu Gly Ile Ile Gly Asn Ser Thr Val Ile Phe Ala  
59 50 55 60  
60 Val Val Lys Lys Ser Lys Leu His Trp Cys Asn Asn Val Pro Asp Ile  
61 65 70 75 80  
62 Phe Ile Ile Asn Leu Ser Val Val Asp Leu Leu Phe Leu Leu Gly Met  
63 85 90 95  
64 Pro Phe Met Ile His Gln Leu Met Gly Asn Gly Val Trp His Phe Gly  
65 100 105 110  
66 Glu Thr Met Cys Thr Leu Ile Thr Ala Met Asp Ala Asn Ser Gln Phe  
67 115 120 125  
68 Thr Ser Thr Tyr Ile Leu Thr Ala Met Ala Ile Asp Arg Tyr Leu Ala  
69 130 135 140  
70 Thr Val His Pro Ile Ser Ser Thr Lys Phe Arg Lys Pro Ser Val Ala  
71 145 150 155 160  
72 Thr Leu Val Ile Cys Leu Leu Trp Ala Leu Ser Phe Ile Ser Ile Thr  
73 165 170 175  
74 Pro Val Trp Leu Tyr Ala Arg Leu Ile Pro Phe Pro Gly Gly Ala Val  
75 180 185 190  
76 Gly Cys Gly Ile Arg Leu Pro Asn Pro Asp Thr Asp Leu Tyr Trp Phe  
77 195 200 205  
78 Thr Leu Tyr Gln Phe Phe Leu Ala Phe Ala Leu Pro Phe Val Val Ile  
79 210 215 220  
80 Thr Ala Ala Tyr Val Arg Ile Leu Gln Arg Met Thr Ser Ser Val Ala  
81 225 230 235 240  
82 Pro Ala Ser Gln Arg Ser Ile Arg Leu Arg Thr Lys Arg Val Thr Arg  
83 245 250 255  
84 Thr Ala Ile Ala Ile Cys Leu Val Phe Phe Val Cys Trp Ala Pro Tyr  
85 260 265 270  
86 Tyr Val Leu Gln Leu Thr Gln Leu Ser Ile Ser Arg Pro Thr Leu Thr  
87 275 280 285  
88 Phe Val Tyr Leu Tyr Asn Ala Ala Ile Ser Leu Gly Tyr Ala Asn Ser  
89 290 295 300  
90 Cys Leu Asn Pro Phe Val Tyr Ile Val Leu Cys Glu Thr Phe Arg Lys  
91 305 310 315 320  
92 Arg Leu Val Leu Ser Val Lys Pro Ala Ala Gln Gly Gln Leu Arg Ala  
93 325 330 335  
94 Val Ser Asn Ala Gln Thr Ala Asp Glu Glu Arg Thr Glu Ser Lys Gly  
95 340 345 350  
96 Thr  
99 <210> SEQ ID NO: 3  
100 <211> LENGTH: 1254  
101 <212> TYPE: DNA  
102 <213> ORGANISM: Human  
104 <400> SEQUENCE: 3  
105 atgaagaagg gagtgaaaaa ggcagttggg cttggaggcg gcagcggtcg ccaggctacg 60  
106 gaggaagacc cccttccaa ctgcggggct tgcgtccgg gacaagggtgg caggcgctgg 120  
107 aggctgccgc agcctgcgtg ggtggagggg agctcagctc gttgtggga gcaggcgacc 180

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/031,014

DATE: 02/07/2002  
TIME: 16:15:28

Input Set : A:\20493p.txt  
Output Set: N:\CRF3\02072002\J031014.raw

108	ggcactggct	ggatggacct	ggaagcctcg	ctgctgccc	ctggtccaa	cggcagcaac	240											
109	acctctgatg	gccccgataa	cctcacttcg	gcaggatcac	ctcctcgac	ggggagcatc	300											
110	tcctacatca	acatcatcat	gccttcggtg	ttcggcacca	tctgcctct	gggcatcatc	360											
111	gggaactcca	cggtcatctt	cgcggctgtg	aagaagtcca	agctgactg	gtgcaacaac	420											
112	gtccccgaca	tcttcatcat	caacctctcg	gttagatgc	tcctcttct	cctgggcatg	480											
113	cccttcatga	tccaccagct	catgggcaat	gggggtgtgc	actttggga	gaccatgtgc	540											
114	accctcatca	cggccatgga	tgccaaatgt	cagttcacca	gcacctacat	cctgaccgccc	600											
115	atggccattg	accgctaccc	ggccactgtc	caccccatct	cttccacaa	gttccggaag	660											
116	ccctctgtgg	ccaccctgg	gatctgcctc	ctgtgggccc	tctccttcat	cagcatcacc	720											
117	cctgtgtggc	tgtatgccag	actcatcccc	ttcccaggag	gtgcagtggg	ctgcccata	780											
118	cgcctgccc	accagacac	tgacctctac	tggttcaccc	tgtaccagtt	tttccctggcc	840											
119	tttgcctgc	ctttgtgg	catcacagcc	gcatacgtga	ggatcctgca	gcccacatgac	900											
120	tcctcagtgg	ccccccgc	ccagcgcagc	atccggctgc	ggacaaagag	ggtagccgc	960											
121	acagccatcg	ccatctgtct	ggtcttctt	gtgtgtggg	caccctacta	tgtgtacag	1020											
122	ctgacccagt	tgtccatcag	ccgcccggacc	ctcacccctt	tctacttata	caatgcggcc	1080											
123	atcagcttgg	gctatgccaa	cagctgcctc	aaccctttg	tgtacatgt	gctctgtgag	1140											
124	acgttccgca	aacgcttgg	cctgtcggtg	aaggctgcag	cccaggggca	gcttcgcgct	1200											
125	gtcagcaacg	ctcagacggc	tgacgaggag	aggacagaaa	gcaaaggca	ctga	1254											
127	<210>	SEQ ID NO:	4															
128	<211>	LENGTH:	417															
129	<212>	TYPE:	PRT															
130	<213>	ORGANISM:	Human															
132	<400>	SEQUENCE:	4															
133	Met	Lys	Lys	Gly	Val	Gly	Arg	Ala	Val	Gly	Leu	Gly	Gly	Gly	Ser	Gly		
134	1				5					10					15			
135	Cys	Gln	Ala	Thr	Glu	Glu	Asp	Pro	Leu	Pro	Asn	Cys	Gly	Ala	Cys	Ala		
136					20					25					30			
137	Pro	Gly	Gln	Gly	Gly	Arg	Arg	Trp	Arg	Leu	Pro	Gln	Pro	Ala	Trp	Val		
138					35					40					45			
139	Glu	Gly	Ser	Ser	Ala	Arg	Leu	Trp	Glu	Gln	Ala	Thr	Gly	Thr	Gly	Trp		
140					50					55					60			
141	Met	Asp	Leu	Glu	Ala	Ser	Leu	Leu	Pro	Thr	Gly	Pro	Asn	Ala	Ser	Asn		
142					65					70					75			80
143	Thr	Ser	Asp	Gly	Pro	Asp	Asn	Leu	Thr	Ser	Ala	Gly	Ser	Pro	Pro	Arg		
144					85					90					95			
145	Thr	Gly	Ser	Ile	Ser	Tyr	Ile	Asn	Ile	Ile	Met	Pro	Ser	Val	Phe	Gly		
146					100					105					110			
147	Thr	Ile	Cys	Leu	Leu	Gly	Ile	Ile	Gly	Asn	Ser	Thr	Val	Ile	Phe	Ala		
148					115					120					125			
149	Val	Val	Lys	Lys	Ser	Lys	Leu	His	Trp	Cys	Asn	Asn	Val	Pro	Asp	Ile		
150					130					135					140			
151	Phe	Ile	Ile	Asn	Leu	Ser	Val	Val	Asp	Leu	Leu	Phe	Leu	Leu	Gly	Met		
152					145					150					155			160
153	Pro	Phe	Met	Ile	His	Gln	Leu	Met	Gly	Asn	Gly	Val	Trp	His	Phe	Gly		
154					165					170					175			
155	Glu	Thr	Met	Cys	Thr	Leu	Ile	Thr	Ala	Met	Asp	Ala	Asn	Ser	Gln	Phe		
156					180					185					190			
157	Thr	Ser	Thr	Tyr	Ile	Leu	Thr	Ala	Met	Ala	Ile	Asp	Arg	Tyr	Leu	Ala		
158					195					200					205			

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/031,014

DATE: 02/07/2002  
TIME: 16:15:28

Input Set : A:\20493p.txt  
Output Set: N:\CRF3\02072002\J031014.raw

159 Thr Val His Pro Ile Ser Ser Thr Lys Phe Arg Lys Pro Ser Val Ala  
160 210 215 220  
161 Thr Leu Val Ile Cys Leu Leu Trp Ala Leu Ser Phe Ile Ser Ile Thr  
162 225 230 235 240  
163 Pro Val Trp Leu Tyr Ala Arg Leu Ile Pro Phe Pro Gly Gly Ala Val  
164 245 250 255  
165 Gly Cys Gly Ile Arg Leu Pro Asn Pro Asp Thr Asp Leu Tyr Trp Phe  
166 260 265 270  
167 Thr Leu Tyr Gln Phe Phe Leu Ala Phe Ala Leu Pro Phe Val Val Ile  
168 275 280 285  
169 Thr Ala Ala Tyr Val Arg Ile Leu Gln Arg Met Thr Ser Ser Val Ala  
170 290 295 300  
171 Pro Ala Ser Gln Arg Ser Ile Arg Leu Arg Thr Lys Arg Val Thr Arg  
172 305 310 315 320  
173 Thr Ala Ile Ala Ile Cys Leu Val Phe Phe Val Cys Trp Ala Pro Tyr  
174 325 330 335  
175 Tyr Val Leu Gln Leu Thr Gln Leu Ser Ile Ser Arg Pro Thr Leu Thr  
176 340 345 350  
177 Phe Val Tyr Leu Tyr Asn Ala Ala Ile Ser Leu Gly Tyr Ala Asn Ser  
178 355 360 365  
179 Cys Leu Asn Pro Phe Val Tyr Ile Val Leu Cys Glu Thr Phe Arg Lys  
180 370 375 380  
181 Arg Leu Val Leu Ser Val Lys Pro Ala Ala Gln Gly Gln Leu Arg Ala  
182 385 390 395 400  
183 Val Ser Asn Ala Gln Thr Ala Asp Glu Glu Arg Thr Glu Ser Lys Gly  
184 405 410 415  
185 Thr  
188 <210> SEQ ID NO: 5  
189 <211> LENGTH: 1269  
190 <212> TYPE: DNA  
191 <213> ORGANISM: Human  
193 <400> SEQUENCE: 5  
194 atgtcagtgg gagccatgaa gaagggagtg gggagggcag ttgggcttgg aggccgcagc 60  
195 ggctgccagg ctaacggagga agacccccc cccaactqcg qggcttgagc tccgggacaa 120  
196 ggtggcaggc gctggaggct gccgcagccct gcgtgggtgg aggggagctc agctcggttg 180  
197 tgggagcagg cgacccggcac tggctggatg gacctggaaag cctcgctgct gccactgg 240  
198 cccaaacgcca gcaacacactc tcatggcccc gataacctca cttcggcagg atcacctcct 300  
199 cgacacggga gcatctccata catcaacatc atcatgcctt cgggtttcg caccatctgc 360  
200 ctccctggca tcatggaa ctccacggtc atcttcggcg tcgtgaagaa gtccaagctg 420  
201 cactggtgca acaacgtccc cgacatcttc atcatcaacc tctcggtagt agatctcctc 480  
202 tttctccctgg gcatggccctt catgatccac cagctcatgg gcaatgggggt gtggacttt 540  
203 ggggagacca tttgtgcacccctt catcacggcc atggatgcca atagtcaagg caccaccc 600  
204 tacatccctga cgcgcacggc cattgaccgc taccctggcca ctgtccaccc catctttcc 660  
205 acgaagtccc ggaagccctc tttgtggccacc ctgtgtatgc gcttcctgtg gcccctctcc 720  
206 ttcatcagca tcacccctgt gtggctgtat gccagactca tcccccttccc aggaggtgca 780  
207 gtgggtcg gcatacgcctt gcccacccca gacactgacc tctactgggtt caccctgtac 840  
208 cagttttcc tggcctttgc cctgcctttt gtgtcatca cagccgcata cgtgaggatc 900  
209 ctgcagcgca tgacgtccctc agtggcccccc gcctcccagc gcagcatccg gctgcggaca 960  
210 aagagggtga cccgcacagc catcgccatc tgcgtgtct tctttgtgtg ctgggcaccc 1020

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/031,014

DATE: 02/07/2002  
TIME: 16:15:28

Input Set : A:\20493p.txt  
Output Set: N:\CRF3\02072002\J031014.raw

211 tactatgtgc tacagctgac ccagttgtcc atcagccgcc cgaccctcac ctttgtctac 1080  
 212 ttataacaatg cgccatcag cttgggctat gccaacagct gcctcaaccc ctttgtgtac 1140  
 213 atcgtgctct gtgagacgtt cgcacaaacgc ttggcctgt cggtgaagcc tgcagcccag 1200  
 214 gggcagcttc ggcgtgtcag caacgctcag acggctgacg aggagaggac agaaagcaaa 1260  
 215 ggcacctga 1269  
 217 <210> SEQ ID NO: 6  
 218 <211> LENGTH: 422  
 219 <212> TYPE: PRT  
 220 <213> ORGANISM: Human  
 222 <400> SEQUENCE: 6  
 223 Met Ser Val Gly Ala Met Lys Lys Gly Val Gly Arg Ala Val Gly Leu  
 224 1 5 10 15  
 225 Gly Gly Gly Ser Gly Cys Gln Ala Thr Glu Glu Asp Pro Leu Pro Asn  
 226 20 25 30  
 227 Cys Gly Ala Cys Ala Pro Gly Gln Gly Gly Arg Arg Trp Arg Leu Pro  
 228 35 40 45  
 229 Gln Pro Ala Trp Val Glu Gly Ser Ser Ala Arg Leu Trp Glu Gln Ala  
 230 50 55 60  
 231 Thr Gly Thr Gly Trp Met Asp Leu Glu Ala Ser Leu Leu Pro Thr Gly  
 232 65 70 75 80  
 233 Pro Asn Ala Ser Asn Thr Ser Asp Gly Pro Asp Asn Leu Thr Ser Ala  
 234 85 90 95  
 235 Gly Ser Pro Pro Arg Thr Gly Ser Ile Ser Tyr Ile Asn Ile Ile Met  
 236 100 105 110  
 237 Pro Ser Val Phe Gly Thr Ile Cys Leu Leu Gly Ile Ile Gly Asn Ser  
 238 115 120 125  
 239 Thr Val Ile Phe Ala Val Val Lys Lys Ser Lys Leu His Trp Cys Asn  
 240 130 135 140  
 241 Asn Val Pro Asp Ile Phe Ile Ile Asn Leu Ser Val Val Asp Leu Leu  
 242 145 150 155 160  
 243 Phe Leu Leu Gly Met Pro Phe Met Ile His Gln Leu Met Gly Asn Gly  
 244 165 170 175  
 245 Val Trp His Phe Gly Glu Thr Met Cys Thr Leu Ile Thr Ala Met Asp  
 246 180 185 190  
 247 Ala Asn Ser Gln Phe Thr Ser Thr Tyr Ile Leu Thr Ala Met Ala Ile  
 248 195 200 205  
 249 Asp Arg Tyr Leu Ala Thr Val His Pro Ile Ser Ser Thr Lys Phe Arg  
 250 210 215 220  
 251 Lys Pro Ser Val Ala Thr Leu Val Ile Cys Leu Leu Trp Ala Leu Ser  
 252 225 230 235 240  
 253 Phe Ile Ser Ile Thr Pro Val Trp Leu Tyr Ala Arg Leu Ile Pro Phe  
 254 245 250 255  
 255 Pro Gly Gly Ala Val Gly Cys Gly Ile Arg Leu Pro Asn Pro Asp Thr  
 256 260 265 270  
 257 Asp Leu Tyr Trp Phe Thr Leu Tyr Gln Phe Phe Leu Ala Phe Ala Leu  
 258 275 280 285  
 259 Pro Phe Val Val Ile Thr Ala Ala Tyr Val Arg Ile Leu Gln Arg Met  
 260 290 295 300  
 261 Thr Ser Ser Val Ala Pro Ala Ser Gln Arg Ser Ile Arg Leu Arg Thr

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/031,014

DATE: 02/07/2002

TIME: 16:15:29

Input Set : A:\20493p.txt

Output Set: N:\CRF3\02072002\J031014.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date